

L Number	Hits	Search Text	DB	Time stamp
101	2	(fieldbus field near3 bus) same (mobile cellular) same communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 17:57
100	2	(fieldbus field near3 bus) same (mobile cellular) same communicat\$3 AND (@ad<19990414 @rlad<19990414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 17:57
102	3	(fieldbus field near4 bus) same (mobile cellular) same communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 17:57
103	3962	(fieldbus field) same (mobile cellular) same communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 17:58
104	2103	(fieldbus field) with (mobile cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 17:58
105	662	(fieldbus field) near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 18:00
106	10	(fieldbus field near device) near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 18:01
107	1	(fieldbus field adj device) near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 18:59
113	13273	radio near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 18:59
114	611	wireless near4 radio near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:00

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115	2469	wireless with radio with (mobile cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:00
116	530	wireless with radio with (mobile and cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:00
117	62	wireless near4 radio near4 (mobile and cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:01
118	0	(field adj device fieldbus) and wireless near4 radio near4 (mobile and cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:02
119	0	(field adj device fieldbus) and wireless near4 radio near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:02
120	9	(field adj device fieldbus) and radio near4 (mobile cellular) near4 communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:03
121	0	(field adj device fieldbus) same radio with (mobile cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:04
122	16	(field adj device fieldbus) and radio with (mobile cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:04
123	0	(field adj device fieldbus) and tdma and radio with (mobile cellular) with communicat\$3 AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:05
124	4	(field adj device fieldbus) and tdma and radio with (mobile cellular) AND (@ad<20000414 @rlad<20000414)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/26 19:15



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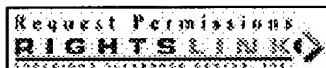
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## A wireless gateway for fieldbus

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### Abstract:

We study wireless **communications** within the context of industrial applications [Gerla and Lessard 1994]. The question of interest is whether or not wireless connections can be used for accessing distant sensors and actuators through **fieldbus** [Pleinevaux and Decotignie 1993]. The question of interest is where the bandwidth of available wireless connections allows access to distant sensors/actuators through a **fieldbus** protocol. The paper describes a gateway design for the extension of a FIP standard **fieldbus** through a narrowband radio channel. The performance limit is evaluated and an example given for a 9600 bps channel

### Index Terms:

computer networks factory automation field buses network interfaces protocols radio networks radiocommunication 9600 bit/s FIP standard fieldbus actuators distant sensors fieldbus fieldbus protocol industrial applications narrowband radio channel performance limit wireless gateway

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